

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: ISPH-0501  
Inventors: Baker et al.  
Serial No.: Not yet assigned  
Filing Date: Herewith  
Examiner: Not Yet Assigned  
Group Art Unit: Not yet assigned  
Title: Antisense Oligonucleotide  
Modulation of Tumor Necrosis  
Factor- $\alpha$  (TNF- $\alpha$ )  
Expression

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Date of Deposit August 26, 2003

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By Jane Massey Licata

Typed Name: Jane Massey Licata, Reg. No. 32,257

Commissioner for Patents  
Mail Stop Sequence  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

- (XX) In accordance with \$1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in \$1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.
- ( ) In accordance with \$1.97(c), this Information Disclosure Statement is being filed after the period set forth in \$1.97(b) above but before the mailing date of either a Final Action under \$1.113 or a Notice of Allowance under \$1.311, therefore:
- ( ) Certification in Accordance with \$1.97(e) is set forth below; or
- ( ) The fee of \$240.00 as set forth in \$1.17(p) is attached.
- ( ) In accordance with \$1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under \$1.113 or a Notice of Allowance under \$1.311 but before the payment of the Issue Fee, therefore included are: Certification in Accordance with \$1.97(e); Petition Requesting Consideration of the Information Disclosure Statement; and the fee of \$130.00 as set forth in \$1.17(I)(1).
- ( ) Copies of each of the references listed on the attached Form PTO-1449 (modified) are enclosed herewith.

(XX) In accordance with \$1.98(d), copies of some or all of the references listed on the attached Form PTO-1449 (modified) are not enclosed herewith because they were previously submitted to the U.S. Patent and Trademark Office in prior application Serial No. 09/824,322 filed April 2, 2001, 09/313,932 filed May 18, 1999, and Serial No. 09/166,186, filed October 5, 1998, for which a claim for priority under 35 U.S.C. §120 has been made in the instant application.

Please charge any deficiency or credit any overpayment to Deposit Account No. 50-1619. This form is submitted in duplicate.

( ) The relevance of the listed references in a foreign language is as stated in the specification at pages @@.

(XX) All listed references are in the English language.

Respectfully submitted,

*Jane Massey Licata*

Jane Massey Licata  
Registration No. 32,257

Date: August 26, 2003

Licata & Tyrrell P.C.  
66 E. Main Street  
Marlton, New Jersey 08053

(856) 810-1515

<b>Form PTO-1449 Modified</b>  List of Patents and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce		Docket No. <b>ISPH-0767</b>	Serial No. <b>Not yet assigned</b>
		Applicant <b>BAKER, ET AL.</b>	
		Filing Date <b>Herewith</b>	Group <b>Not yet assigned</b>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	AA	Aggarwal et al., "Triple Helix-forming Oligodeoxyribonucleotides Targeted to the Human Tumor Necrosis Factor (TNF) Gene Inhibit TNF Production and Block the TNF-dependent Growth of Human Glioblastoma Tumor Cells", 1996, Cancer Res., 56, 5156-5164	
	AB	dHellencourt, "Inhibition of human TNF $\alpha$ and LT in cell-free extracts and in cell culture by antisense oligonucleotides", 1996, Biochim. Biophys. Acta, 1317, 168-174	
	AC	Hartmann, "Oligodeoxynucleotides Enhance Lipopolysaccharide-Stimulated Synthesis of Tumor Necrosis Factor: Dependence on Phosphorothioate Modification and Reversal by Heparin", 1996, Mol. Med., 2, 429-438	
	AD	Hartmann, "Specific Suppression of Human Tumor Necrosis Factor- $\alpha$ Synthesis by Antisense Oligodeoxynucleotides", 1996, Antisense Nucleic Acid Drug Devel., 6, 291-299	
	AE	Rojanasakul, "Antisense Inhibition of Silica-induced Tumor Necrosis Factor in Alveolar macrophages", 1997, J. Biol.Chem., 272, 3910-3914	
	AF	Taylor et al., "In Vitro Efficacy of Morpholino-modified Antisense Oligomers Directed against Tumor Necrosis Factor- $\alpha$ mRNA", 1998, Antisense Nucleic Acid Drug Devel., 8, 199-205	
	AG	Taylor et al., "Effect of TNF- $\alpha$ Antisense Oligomers on Cytokine Production by Primary Murine Alveolar macrophages", 1996, J. Biol. Chem., 271, 17445-17452	
	AH	Tu et al., "Tetranucleotide GGG A Motif in Primary RNA Transcripts", 1998, J. Biol. Chem., 273, 25125-25131	
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>	



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	Applicant <b>BAKER, ET AL.</b>	
	Filing Date <b>Herewith</b>	Group <b>Not yet assigned</b>

## U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass

## FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation YES NO	
	AG	WO 94/10301	5-11-94	PCT	X	
	AH	WO 95/23225	8-31-95	PCT	X	

EXAMINER

DATE CONSIDERED